

Item 10

**Status Report on Rialto-
Colton-Fontana Perchlorate
Investigation and Summary
of Existing Data**

Investigation Orders

- ⌘ Issued pursuant to WC Section 13267
- ⌘ Eight issued to date
- ⌘ Staff investigating additional suspected dischargers

Former West Coast
Loading Corp.
& Goodrich Site



Pyro
Spectaculars

American Promo
Events/Freedom
& Red Devil
Fireworks



Denova
Environmental

Former
Bunker
Area

Robertson's
Ready-Mix

Mid-Valley
Landfill



Detail Area
shown on next slide

Mid-Valley Landfill



**Former West Coast
Loading Corp.
(Emhart/B & D)
& Goodrich Site**



**Pyro
Spectaculars**

**American Promo
Events**

**Denova
Environmental**

Goodrich Corporation

- ⌘ Issued 9/24/02
- ⌘ Extension of work plan submittal deadline granted
- ⌘ Final work plan submitted 10/22/02; work plan approved 11/13/02
- ⌘ Settlement agreement for wellhead treatment is under negotiation with water purveyors

American Promotional Events - West, Inc.

- ⌘ Issued 9/25/02
- ⌘ Work plan received 10/23/02
- ⌘ Board staff inspected facility 11/12/02
- ⌘ Work plan response 11/22/02 informed APE that the work plan was inadequate
- ⌘ Revised work plan due 12/12/02

County of San Bernardino

- ⌘ Issued 9/26/02
- ⌘ Report of prior investigation submitted
- ⌘ Partial work plan approved & work completed
- ⌘ Staff met with DTSC & S.B. County to discuss scope of final work plan 11/13/02
- ⌘ Final work plan submitted 11/15/02 & review is in progress

Aerojet (GenCorp)

- ⌘ Issued 9/27/02
- ⌘ Work plan was due 10/28/02
- ⌘ Aerojet faxed extension request 10/28/02
- ⌘ Notice of Violation issued by EO 11/5/02
- ⌘ Staff met with Aerojet 11/22/02
- ⌘ Aerojet conducting additional records review; NOV remains in effect

Denova Environmental, Inc.

- ⌘ Issued 10/2/02
- ⌘ Work plan was due 11/2/02
- ⌘ Work plan delinquent; no response received
- ⌘ Status of company is unknown; Board staff researching contacts for enforcement purposes

Pyro Spectaculars by Souza

- ⌘ Issued 10/7/02
- ⌘ Extension of work plan submittal deadline was requested and granted
- ⌘ Work plan with expanded scope (to include Astro Pyrotechnics) due 12/9/02
- ⌘ Consultants to Pyro Spectaculars are currently reviewing plans submitted by other firms

Emhart Industries, Inc. B & D, Inc.

- ⌘ Issued 10/23/02
- ⌘ Work plan was due 11/25/02
- ⌘ Emhart Industries, Inc. submitted an appeal of the Investigation Order to the State Board 11/22/02
- ⌘ B & D Inc. no longer exists

Emhart Industries, Inc. B & D, Inc.

- ⌘ Subpoenas were issued to Emhart and Black & Decker, Inc. on 11/18/02 for records of operations at the former West Coast Loading Corp.
- ⌘ Emhart and Black & Decker have challenged the subpoenas

U.S. Army Corps of Engineers

- ⌘ Issued 10/24/02
- ⌘ Work plan was due 11/25/02
- ⌘ U.S. Army Corps informed staff by telephone 11/26/02 that, in response to the Investigation Order, a records search of perchlorate and the historical usage of the Rialto Ammunition Storage Point by the Dept. of Defense will be conducted in January, 2003

Recent Studies in the North Rialto Area

⌘ U.S. Army Corps of Engineers (Rialto Ammunition Storage Point)

- site surveys

⌘ Target Corporation

- environmental assessments

⌘ County of San Bernardino

- soil and groundwater investigations

Investigations in North Rialto: U.S. Army Corps of Engineers

⌘ The U.S. Army Corps conducted site surveys (1992, 1995, 1999, & 2000) to evaluate potential hazards remaining from prior military use such as landfills, USTs, artillery ranges, burn pits & unexploded ordnance (UXO) at the former Rialto Ammunition Storage Point (2,822 acres)

Investigations in North Rialto: U.S. Army Corps of Engineers

- ⌘ The early studies by U.S. Army Corps concluded that the potential hazards at the Rialto site were explosives/ordnance, and USTs; no perchlorate investigation conducted by U.S. Army Corps
- ⌘ The Corps will conduct a records search focusing specifically on perchlorate and usage of the Rialto Ammunition Storage Point by the Dept. of Defense



Proposed Site
of Target Warehouse

Denova
Environmental

Pyro
Spectaculars

American Promo
Events/Freedom
& Red Devil
Fireworks

Former
Bunker
Area

Robertson's
Ready-Mix

Mid-Valley
Landfill



Investigations in North Rialto: Target Corporation

- ⌘ An Environmental Impact Report is being prepared, addressing a warehouse facility (230 acres) proposed by Target Corporation adjacent to the Denova property in North Rialto
- ⌘ Consultants to Target Corporation have conducted several phases of environmental site assessment at the site of their future warehouse facility

Investigations in North Rialto: Target Corporation

- ⌘ Target's studies were limited to historical records search and soil investigation
- ⌘ Only one soil sample at site found to contain perchlorate
- ⌘ Consultants for Target concluded that the shallow soil at the Target site is not contaminated by perchlorate
- ⌘ Board staff is reviewing Target's reports

Investigations in North Rialto: Mid-Valley Landfill

- ⌘ The County of San Bernardino has conducted numerous groundwater investigations related to the migration of contaminants from the Mid-Valley Landfill (1986 - present)
- ⌘ Much of this work related to the migration of chlorinated solvents from the landfill and installation of a remediation system
- ⌘ The County has recently completed three phases of perchlorate investigation

Investigations in North Rialto: Mid-Valley Landfill

- ⌘ Phase 1 (1997-2000): Installation of groundwater wells; soil and groundwater sampling and analysis; computer modeling of groundwater flow and perchlorate plume migration
- ⌘ Phase 2 (2002): Installation and sampling of four wells east of the Mid-Valley Landfill and two wells south-southwest of the landfill

Investigations in North Rialto: Mid-Valley Landfill

- ⌘ Phase 3 (2002): One groundwater well on aggregate mining property east of the landfill; soil and groundwater sampling and analysis
- ⌘ Phase 4 (proposed): Soil borings, installation of up to 20 temporary wells & four permanent groundwater monitoring wells; computer modeling of groundwater flow and perchlorate plume migration

Results of Mid-Valley Landfill Perchlorate Investigations

- ⌘ High perchlorate concentrations found in groundwater beneath property owned by San Bernardino County (east of landfill)
- ⌘ One source of perchlorate may be the former bunker site, which was used as a storage facility for explosives and propellant

**perchlorate
concentrations
in parts per billion**

